



Sequence Listing.txt  
SEQUENCE LISTING

<110> CYTOGENIX, INC.  
<120> NUCLEOTIDES FOR PREVENTION AND TREATMENT OF BACTERIAL  
AND FUNGAL PATHOLOGIES  
<130> 17242/003004 (CRYA,025/PCT/US)  
<140> 10/574,254  
<141> 2006-03-30  
<150> PCT/US04/017331  
<151> 2004-06-03  
<150> 10/818,158  
<151> 2004-04-05  
<150> 10/743,956  
<151> 2003-12-23  
<150> 10/453,410  
<151> 2003-06-03  
<160> 39  
<170> PatentIn Ver. 3.2  
<210> 1  
<211> 36  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: Synthetic  
primer  
<400> 1  
ctagctagct agcgatcgat gggaccaatg gggcag 36  
  
<210> 2  
<211> 23  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: Synthetic  
primer  
<400> 2  
cggggtacca gtattccctg gtc 23  
  
<210> 3  
<211> 13  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

Sequence Listing.txt

<400> 3  
tggtgcgtcc gag 13

<210> 4  
<211> 76  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 4  
taactggatg atcgttgtag ctagccttcg aaacttggtg gtgcgtccga gtggaccggg 60  
agacccctgc tcgagt 76

<210> 5  
<211> 82  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 5  
ctagactcga gcaggggtct cccggtccac tcggacgcac caccaagttt cgaaggctag 60  
ctacaacgat catccagtta at 82

<210> 6  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 6  
gtttcgaagg ctagctacaa cgatcatcca g 31

<210> 7  
<211> 65  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(25)  
<223> This region may encompass 3 to 25 variable  
nucleotides, and preferably 7 to 10 nucleotides;  
a, c, g, or t.

<220>  
<221> modified\_base

# Sequence Listing.txt

<222> (41)..(65)

<223> This region may encompass 3 to 25 variable nucleotides, and preferably 7 to 10 nucleotides; a, c, g, or t.

<400> 7

nnnnnnnnnn nnnnnnnnnn nnnnnggcta gctacaacga nnnnnnnnnn nnnnnnnnnn 60  
nnnnn 65

<210> 8

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 8

cctgcttagg ctagctacaa cgatgggtcac c 31

<210> 9

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>

<221> modified\_base

<222> (11)..(50)

<223> a, c, g, or t

<400> 9

ctctcactcc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn actgttgaaa 60  
ggc 63

<210> 10

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 10

cggagagtga gg 12

<210> 11

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

# Sequence Listing.txt

<400> 11  
ctttcaacag t 11

<210> 12  
<211> 57  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> modified\_base  
<222> (13)..(20)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (36)..(43)  
<223> a, c, g, or t

<400> 12  
ctcgagtcta gannnnnnnn ggctagctac aacgannnnn nnnttaatta agctagc 57

<210> 13  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 13  
gctagcttaa ttaa 14

<210> 14  
<211> 61  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 14  
ctttcaacag ttttgatgac ctttgctgac catacaattg cgatatcgtg gggagtgaga 60  
g 61

<210> 15  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

# Sequence Listing.txt

<400> 15  
cctttgctga ccatac 16

<210> 16  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 16  
gacctttgct gacca 15

<210> 17  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 17  
acagttttga tgac 14

<210> 18  
<211> 13  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 18  
acaattgcga tat 13

<210> 19  
<211> 13  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 19  
gacctttgct gac 13

<210> 20  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 20  
tcaacagttt tgatgac 17

<210> 21  
<211> 13  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 21  
atgacctttg ctg 13

<210> 22  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 22  
cagttttgat ga 12

<210> 23  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 23  
acctttgctg ac 12

<210> 24  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 24  
ttgctgacca ta 12

<210> 25  
<211> 12  
<212> DNA  
<213> Artificial Sequence

# Sequence Listing.txt

```

<220>
<223> Description of Artificial Sequence: Synthetic
        oligonucleotide

<400> 25
tgacctttgc tg                                     12

<210> 26
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
        oligonucleotide

<400> 26
gttttgatga cc                                     12

<210> 27
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
        oligonucleotide

<400> 27
gcgatatcgt gg                                     12

<210> 28
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
        oligonucleotide

<400> 28
ttgatgacct tt                                     12

<210> 29
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
        oligonucleotide

<400> 29
tggggagtga g                                     11

<210> 30
<211> 11

```

Sequence Listing.txt

<212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide  
 <400> 30  
 ttgctgacca t 11

<210> 31  
 <211> 11  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide  
 <400> 31  
 ttttgatgac c 11

<210> 32  
 <211> 11  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide  
 <400> 32  
 tgatgacctt t 11

<210> 33  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide  
 <400> 33  
 ctcataactct 10

<210> 34  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide  
 <400> 34  
 Lys Phe Phe Lys Phe Phe Lys Phe Phe Lys  
 1 5 10



# Sequence Listing.txt

<210> 35  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic peptide

<220>  
 <221> MOD\_RES  
 <222> (1)..(3)  
 <223> Variable amino acid

<220>  
 <221> MOD\_RES  
 <222> (8)..(13)  
 <223> Variable amino acid

<220>  
 <221> MOD\_RES  
 <222> (16)  
 <223> Variable amino acid

<220>  
 <221> MOD\_RES  
 <222> (21)..(23)  
 <223> Variable amino acid

<400> 35  
 Xaa Xaa Xaa Lys Lys Arg Arg Xaa Xaa Xaa Xaa Xaa Xaa Thr Trp Xaa  
     1                    5                    10                    15  
 Glu Thr Trp Trp Xaa Xaa Xaa  
                     20

<210> 36  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic peptide

<220>  
 <221> MOD\_RES  
 <222> (2)..(3)  
 <223> Variable amino acid

<220>  
 <221> MOD\_RES  
 <222> (10)..(11)  
 <223> Variable amino acid

<220>  
 <221> MOD\_RES  
 <222> (17)  
 <223> Variable amino acid

<220>

Sequence Listing.txt

<221> MOD\_RES

<222> (20)

<223> Variable amino acid

<400> 36

Lys Xaa Xaa Trp Trp Glu Thr Trp Trp Xaa Xaa Ser Gln Pro Lys Lys  
 1 5 10 15

Xaa Arg Lys Xaa  
 20

<210> 37

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD\_RES

<222> (6)

<223> Variable amino acid

<220>

<221> MOD\_RES

<222> (20)

<223> Variable amino acid

<400> 37

Tyr Gly Phe Lys Lys Xaa Arg Arg Pro Trp Thr Trp Trp Glu Thr Trp  
 1 5 10 15

Trp Thr Glu Xaa  
 20

<210> 38

<211> 24

<212> RNA

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 38

auggcaaagc uugaguaggu cugc

24

<210> 39

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic 6xHN tag

<400> 39

His Asn His Asn His Asn His Asn His Asn His Asn  
 Page 10

Sequence Listing.txt  
10

1

5